

Name: _____

Date _____

Topic : Write the equation for the parabola that has the given characteristics
- Worksheet 1

Write the equation for the parabola:

1. Focus: (0, 8)
Directrix: $y = -2$

2. Vertex: (3, 2)
Focus: (-3, 2)

3. Focus: (0, -3)
Directrix: $y = 3$

4. Focus: (0, 8)
Directrix: $y = -8$

5. Vertex: (2, 2)
Directrix: $x = -15$

6. Focus: (12, 0)
 $x = -12$

7. Vertex: (3, -2)
Focus: (3, -6)

8. Vertex: (3, 3)
Directrix: $y = -4$

9. Focus: (-3, 0)
Directrix: $x = 3$

10. Vertex: (4, 3)
Focus: (7, 3)



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- Worksheet 2

Write the equation for the parabola:

1. Focus: (1, 2)
Directrix: $y = -3$

2. Vertex: (4, 3)
Focus: (-4, 3)

3. Focus: (1, -4)
Directrix: $y = 4$

4. Focus: (1, 0)
Directrix: $y = -3$

5. Vertex: (3, 3)
Directrix: $x = -6$

6. Focus: (9, 0)
Directrix: $x = -13$

7. Vertex: (4, -3)
Focus: (4, -7)

8. Vertex: (4, 4)
Directrix: $y = -2$

9. Focus: (-4, 1)
Directrix: $x = 4$

10. Vertex: (5, 4)
Focus: (8, 4)



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- Worksheet 3

Write the equation for the parabola:

1. Focus: $(2, 0)$
Directrix: $y = -4$

2. Vertex: $(5, 4)$
Focus: $(-5, 4)$

3. Focus: $(2, 5)$
Directrix: $y = -5$

4. Focus: $(2, 1)$
Directrix: $y = 4$

5. Vertex: $(4, -2)$
Directrix: $x = 7$

6. Focus: $(8, 1)$
Directrix: $x = 4$

7. Vertex: $(5, 4)$
Focus: $(5, 8)$

8. Vertex: $(5, 0)$
Directrix: $y = 3$

9. Focus: $(-5, 2)$
Directrix: $x = 5$

10. Vertex: $(6, 3)$
Focus: $(0, 5)$



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- Worksheet 4

Write the equation for the parabola:

1. Focus: (3, 3)
Directrix: $x = 5$

2. Vertex: (2, 5)
Focus: (6, 5)

3. Focus: (3, 6)
Directrix: $y = 6$

4. Focus: (3, 2)
Directrix: $y = 5$

5. Vertex: (5, 3)
Directrix: $x = 8$

6. Focus: (0, 2)
Directrix: $x = 5$

7. Vertex: (6, 5)
Focus: (6, 0)

8. Vertex: (0, 1)
Directrix: $y = 4$

9. Focus: (2, 1)
Directrix: $x = 4$

10. Vertex: (0, 1)
Focus: (1, 6)



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Topic : Write the equation for the parabola that has the given characteristics
- Worksheet 5

Write the equation for the parabola:

1. Focus: $(4, 0)$
Directrix: $x = 1$

2. Vertex: $(3, 6)$
Focus: $(2, 0)$

3. Focus: $(0, 8)$
Directrix: $y = 1$

4. Focus: $(4, 2)$
Directrix: $y = 6$

5. Vertex: $(6, 4)$
Directrix: $x = 9$

6. Focus: $(1, 0)$
Directrix: $x = 6$

7. Vertex: $(8, 2)$
Focus: $(7, 1)$

8. Vertex: $(3, 2)$
Directrix: $y = 0$

9. Focus: $(3, 2)$
Directrix: $x = -5$

10. Vertex: $(2, 3)$
Focus: $(5, 0)$

